

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A functional composite fiber, comprising a plurality of the T-lobes connected to each other at their bases, wherein the caps of the T-lobes contain a first component; ~~and the~~ the bases of the T-lobes contain the a second component including the first component and an additive; and the caps are substantially free of the second component.

2. (original): The functional composite fiber as claimed in claim 1, wherein the caps of the T-lobes connect with each other to form a porous hollow fiber with polygonal cross-section.

3. (original): The functional composite fiber as claimed in claim 1, wherein the caps of the T-lobes are not connected to each other and form a non-hollow fiber with multilateral cross-section.

4. (original): The functional composite fiber as claimed in claim 1, wherein the component comprises polyester, nylon, polyolefin, poly(acrylonitrile) (PAN), or cellulose.

5. (original): The functional composite fiber as claimed in claim 4, wherein the polyester is polyethylene terephthalate (PET).

6. (original): The functional composite fiber as claimed in claim 1, wherein the additive comprises anti-UV, far-IR, or anti-bacterial & mildew-retarding agents.

7. (withdrawn): A spinneret for the manufacture of a functional composite fiber having a plurality of the T-lobes connected at their bases, and the caps of the T-lobes contain a component and their bases contain the component and an additive, the spinneret comprising:

a plurality of rectangular first exits extending outward to form an equilateral polygon, and
a plurality of rectangular second exits radially arranged from the mass center of the equilateral polygon to each side of equilateral polygon.

8. (withdrawn): The spinneret as claimed in claim 7, wherein the adjacent first and second exits form a right angle.

9. (withdrawn): The spinneret as claimed in claim 7, wherein the first exit is longer than the second exit.

10. (withdrawn): The spinneret as claimed in claim 7, wherein the first exit is shorter than the second exit.

11. (withdrawn): The spinneret as claimed in claim 7, wherein the equilateral polygon is an equilateral triangle.

12. (withdrawn): A manufacturing method for a functional composite fiber, comprising: producing a functional composite fiber using a spinneret, wherein the spinneret comprises:

a plurality of rectangular first exits extending outward to form an equilateral polygon, and

a plurality of rectangular second exits radially arranged from the mass center of equilateral polygon to each side of equilateral polygon; and

the functional composite fiber comprises a first component extruded from the first exit and a second component extruded from the second exit.

13. (withdrawn): The manufacturing method as claimed in claim 12, wherein the adjacent first and second exit form a right angle.

14. (withdrawn): The manufacturing method as claimed in claim 12, wherein the first exit is longer than the second exit to obtain a porous hollow fiber with polygonal cross-section.

15. (withdrawn): The manufacturing method as claimed in claim 12, wherein the first exit is shorter than the second exit to obtain a non-hollow fiber with multilateral cross-section.

16. (withdrawn): The manufacturing method as claimed in claim 12, wherein the equilateral polygon is an equilateral triangle.

17. (withdrawn): The manufacturing method as claimed in claim 12, wherein the first component comprises polyester, nylon, polyolefin, poly(acrylonitrile) (PAN), or cellulose.

18. (withdrawn): The manufacturing method as claimed in claim 17, wherein the polyester is polyethylene terephthalate.

19. (withdrawn): The manufacturing method as claimed in claim 18, wherein the second component comprises the first component and an additive.

20. (withdrawn): The manufacturing method as claimed in claim 19, wherein the additive comprises anti-UV, far-IR, or anti-bacterial & mildew-retarding agents.